



1632/IFN

PTO/SB/08A (08-03)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/044,539		
		Filing Date	January 11, 2002		
		First Named Inventor	Cech, Thomas		
		Art Unit	1632		
		Examiner Name	Lieto, Louis D.		
Sheet	1	of	2	Attorney Docket Number	015389-002630US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	A1				
	A2				

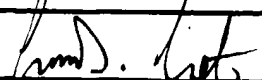
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	B2							<input type="checkbox"/>

Examiner Signature		Date Considered	10.27.04
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.  
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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Application Number	10/044,539
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				Examiner Name	Lieto, Louis D.
Sheet	2	of	2	Attorney Docket Number	015389-002630US

NON PATENT LITERATURE DOCUMENTS			
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LDC	C1	ANDERSON, W. FRENCH "Human Gene Therapy" <i>Nature</i> , April 30, 1998, pp. 25-30, Vol. 392, Supp.	
	C2	HORNSBY, PJ et al. "Adrenocortical Cells Immortalized by Telomerase: Potential Use for <i>Ex Vivo</i> Gene Therapy" <i>Journal of Anti-Aging Medicine</i> , 2000, pp. 411-417, Vol. 3, No. 4.	
	C3	OSTLER ELIZABETH L. et al. "Telomerase and the Cellular Lifespan: Implications for the Aging Process" <i>J. of Pediatric Endocrinology &amp; Metabolism</i> , 2000, pp. 1467-1476, Vol. 13, Supplement 6, Freund Publishing House Ltd. London.	
	C4		

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Substitute for form 1449A/PTO		<b>Complete if Known</b>			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/044,539		
		Filing Date	January 11, 2002		
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		Art Unit	1646		
		Examiner Name			
Sheet	1	of	5	Attorney Docket Number	015389-002630US

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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LXL	A1	US-5,597,697	01-28-1997	Diamond	
LXL	A2	US-5,917,025	06-29-1999	Collins	
LXL	A3	US-6,166,178	12-26-2000	Cech et al.	
LXL	A4	US-6,309,887	10-30-2001	Cech et al.	
LXL	A5	US-6,337,200	01-08-2002	Morin	
LXL	A6	US-6,475,789 B1	11-05-2002	Cech et al.	
LXL	A7	US-6,610,839 B1	08-26-2003	Cech et al.	
LXL	A8	US-6,617,110 B1	09-09-2003	Cech et al.	

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PTO/SB/08B (08-03)

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		First Named Inventor	Cech, Thomas
		Art Unit	1646
		Examiner Name	
Sheet 2 of 5	Attorney Docket Number	015389-002630US	

NON PATENT LITERATURE DOCUMENTS			
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LNL	C1	ADAMSON, D. et al. "Significant Telomere Shortening in Childhood Leukemia", <i>Cancer Genet. Cytogenet.</i> , 1992; pp. 204-206, Vol. 61	<input type="checkbox"/>
LNL	C2	AUTEXIER, CHANTAL, et al., "Telomerase and cancer: revisiting the telomere hypothesis; Trends in Biochemical Sciences, 1996, pp. 387-391, Vol. 10, No. 21.	<input type="checkbox"/>
LNL	C3	AVILION, A., "Characterization and expression of human telomerase," <i>Dissertation Abstracts International</i> , 1996, pp. 5930-8, Vol. 56, No. 11	<input type="checkbox"/>
LNL	C4	BARINGA, MARCIA, "The Telomerase Picture Fills In", <i>Science</i> , April 25, 1997; pp. 528-529, Vol. 276	<input type="checkbox"/>
LNL	C5	CHIU, et al. "Replicative senescence and cell immortality: the role of telomeres and telomerase (44075)", <i>Proc. Soc. Exp. Bio. Med.</i> , 1997, pp. 99-106, Vol. 214.	<input type="checkbox"/>
LNL	C6	CHONG, L. et al. "A Human Telomeric Protein", <i>Science</i> , Dec. 1995, pp. 1663-1667, Vol. 270.	<input type="checkbox"/>
LNL	C7	COLLINS, KATHLEEN, "Structure and function of telomerase", <i>Current Opinion in Cell Biology</i> , 1996, pp. 374-380, Vol. 8	<input type="checkbox"/>
LNL	C8	COUNTER, C. et al. "Telomerase Activity in Normal Leukocytes and in Hematologic Malignancies" <i>Blood</i> , May 1, 1995; pp. 2315-2320, Vol. 85, No. 9.	<input type="checkbox"/>
LNL	C9	COUNTER, C. et al. "Telomere shortening associated with chromosome instability is arrested in immortal cells which express telomerase activity", <i>The EMBO Journal</i> , 1992, pp. 1921-1929, Vol. 11; No. 5, Oxford University Press.	<input type="checkbox"/>
LNL	C10	DE LANGE, T. et al. "Structure and Variability of Human Chromosome Ends", <i>Molecular and Cellular Biology</i> , February 1990; pp. 518-527, Vol. 10, No. 2.	<input type="checkbox"/>
LNL	C11	FLAVELL, R. & MATHIAS, R. "Prospects for transforming monocot crop plants", <i>Nature</i> , 12 Jan. 1984, pp. 108-109, Vol. 307.	<input type="checkbox"/>
LNL	C12	FRESHNEY, <i>Culture of Animal Cells. A Manual Basic Technique</i> , p. 4, Alan R. Liss, Inc. New York, 1983.	<input type="checkbox"/>
LNL	C13	Genbank Accession No. A46242; September 21, 1993	<input type="checkbox"/>
LNL	C14	Genbank Accession No. L38903; January 30, 1995	<input type="checkbox"/>
LNL	C15	Genbank Accession No. Q06163; November 01, 1995	<input type="checkbox"/>
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PTO/SB/08B (08-03)

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 5

**Complete If Known**

Application Number	10/044,539
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First Named Inventor	Cech, Thomas
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Attorney Docket Number	015389-002630US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
LAL	C17	Genbank Accession No. S53396; May 5, 1995	<input type="checkbox"/>
LAL	C18	GenBank Accession No. U95964; May 5, 1997	<input type="checkbox"/>
LAL	C19	GenBank Accession No. W70315; June 19, 1996	<input type="checkbox"/>
LAL	C20	GLASER, P. et al. "Bacillus subtilis genome project: cloning and sequencing of the 97 kb region from 325" to 333" Molecular Microbiology, 1993, pp. 371-384, Vol. 10, No. 2.	<input type="checkbox"/>
LAL	C21	GOODMAN, R. et al. "Gene Transfer in Crop Improvement", Science, 3 April 1997, pp. 48-54, Vol. 236.	<input type="checkbox"/>
LAL	C22	GREIDER, C. "Telomeres, Telomerase and Senescence", BioEssays; 1990; pp. 363-369, Vol. 12, No. 8.	<input type="checkbox"/>
LAL	C23	HARLEY, C. "Telomere loss: Mitotic clock or genetic time bomb?" Mutation Research; 1991; pp. 271-282, Vol. 256, Elsevier Science Publishers.	<input type="checkbox"/>
LAL	C24	HARLEY, C. & VILLEPONTEAU, B. "Telomeres and telomerase in aging and cancer" Current Opinion in Genetics and Development; 1995, pp. 249-255, Vol. 5.	<input type="checkbox"/>
LAL	C25	HARLEY, C. et al. "Telomeres shorten during ageing of human fibroblasts", Nature, 31 May 1990; pp. 458-460, Vol. 345.	<input type="checkbox"/>
LAL	C26	HASTIE, N. et al. "Telomere reduction in human colorectal carcinoma and with ageing", Nature, 30 August 1990, pp. 866-868, Vol. 346.	<input type="checkbox"/>
LAL	C27	HEALY, K. C. "Telomere dynamics and telomerase activation in tumor progression: prospects for prognosis and therapy" Oncol. Res., 1995, pp. 121-130, Vol. 7	<input type="checkbox"/>
LAL	C28	HENDERSON, C. Cancer genetics gene regulates telomerase resulting in death of cancer cells; Gene Therapy Weekly; 11 September 1995.	<input type="checkbox"/>
LAL	C29	HIYAMA, E. et al. "Correlating telomerase activity levels with human neuroblastoma outcomes"; Nature Medicine; 3 March 1995; pp. 249-255, Vol. 1, No. 3.	<input type="checkbox"/>
LAL	C30	HOLTZMANN, K. et al. "Telomeric Associations and Loss of Telomeric DNA Repeats in Renal Tumors", Genes, Chromosomes & Cancer, 1993, pp. 178-181, Vol. 6.	<input type="checkbox"/>
LAL	C31	JÄHNE, A. et al. "Genetic Engineering of Cereal Crop Plants: A Review", Euphytica, 1995, pp. 35-44, Vol. 85, Kluwer Academic Publishers, Netherlands.	<input type="checkbox"/>
LAL	C32	JOLLIFFE, L.K. "Humanized antibodies: enhancing therapeutic utility through antibody engineering", Int. Rev. Immunol., 1993, pp. 241-250, Vol. 10	<input type="checkbox"/>
LAL	C33	KIM, N. et al. "Specific Association of Human Telomerase Activity with Immortal Cells and Cancer", Science, 23 December 1994 pp. 2011-2014, Vol. 266.	<input type="checkbox"/>

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Sheet	4 of 5	Attorney Docket Number	015389-002630US

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LDL	C34	KLINGELHUTZ, A. et al. "Restoration of Telomeres in Human Papillomavirus- Immortalized Human Anogenital Epithelial Cells"; <i>Molecular and Cellular Biology</i> ; Feb. 1994, pp. 961-969, Vol. 14, No. 2.	<input type="checkbox"/>
LDL	C35	LEWIS, A. & CROWE, J.S. "Generation of humanized monoclonal antibodies by 'best fit' framework selection and recombinant polymerase chain reaction"; <i>Year Immunol.</i> , 1993, pp. 110-118, Vol. 7	<input type="checkbox"/>
LDL	C36	Linking telomerase and tumors; <i>Genesis Report- Dx</i> ; 1995; Vol. 4, No. 6; Publisher Genesis Group Associates.	<input type="checkbox"/>
LDL	C37	LUNDBLAD, V. & BLACKBURN, E., Letter to the Editor entitled, "RNA-Dependent Polymerase Motifs in EST1: Tentative Identification of a Protein Component of an Essential Yeast Telomerase"; <i>Cell</i> , 23 Feb. 1990, pp. 529-530, Vol. 60.	<input type="checkbox"/>
LDL	C38	LUSTIG, ARTHUR J., "The Identification of telomerase subunits: catalysing telomere research", <i>Trends in Cell Biology</i> ; August 1997, pp. 299-302, Vol. 7.	<input type="checkbox"/>
LDL	C39	MALICKI, J. et al. "A human <i>HOX4B</i> regulatory element provides head-specific expression in <i>Drosophila</i> embryos"; <i>Nature</i> , 23 July 1992, pp. 345-357, Vol. 358.	<input type="checkbox"/>
LDL	C40	NAKAYAMA, J. et al. "Cloning of a Candidate cDNA Encoding a Proteinaceous Component of Mammalian Telomerase"; <i>Molecular Biology Cell Abstracts Supp.</i> 7, 1996, p. 875-884, 286a Section 1664.	<input type="checkbox"/>
LDL	C41	NATARAJAN et al. "Major histocompatibility complex determinants select T-cell receptor alpha chain variable region dominance in a peptide-specific response." <i>Proc. Natl. Acad. Sci.</i> , Oct 1992, pp. 8874-8878, Vol. 19.	<input type="checkbox"/>
LDL	C42	PASZKOWSKI, JERZY et al. "Direct gene transfer to plants," <i>The EMBO Journal</i> , 1984, pp. 2717-2722, Vol. 3, No. 12.	
LDL	C43	POTRYKUS, I. et al. "Direct gene transfer to cells of a graminaceous monocot", <i>Mol. Gen. Genet.</i> , 1985, pp. 183-188, Vol. 199.	<input type="checkbox"/>
LDL	C44	RAYMOND, E., et al.; Agents that target telomerase and telomeres; <i>Curr. Opin. Biotechnol.</i> ; 1996; 7:583-91	<input type="checkbox"/>
LDL	C45	RHYU, M.S. "Telomeres, telomerase, and immortality"; <i>J. Natl. Cancer Inst.</i> ; 21 June 1995; pp. 884-894, Vol. 87, No. 12.	<input type="checkbox"/>
LDL	C46	SCHENA et al. "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes"; <i>Proc. Natl. Acad. Sci.</i> , Oct. 1996, pp. 10614-10619, Vol. 93, USA.	<input type="checkbox"/>
LDL	C47	SCHWARTZ, H. et al. "Telomere Reduction in Giant Cell Tumor of Bone and with Aging"; <i>Cancer Genet Cytogenet</i> ; 1993; pp. 132-136, Vol. 71, Elsevier Science Publishing Co., Inc., New York, U.S.A.	<input type="checkbox"/>
LDL	C48	SINGER, M. "Unusual Reverse Transcriptases"; <i>Journal of Biological Chemistry</i> ; 1995, pp. 24623-23626, Vol. 270, No. 42	<input type="checkbox"/>

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Sheet 5 of 5

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LAL	C49	SMITH, J. & YEH, G. "Telomere Reduction in Endometrial Adenocarcinoma"; <i>Am. J. Obstet. Gynecol.</i> ; Dec. 1992; pp. 1883-1887, Vol. 167, No. 6	<input type="checkbox"/>
LAL	C50	TAIT, J. et al. "Structure and Polymorphisms of the Human Annexin III (ANX3) Gene", <i>Genomics</i> , 1993, pp. 79-86, Vol. 18, No. 1	<input type="checkbox"/>
LAL	C51	WINTER, G. & HARRIS, W. "Humanized Antibodies", <i>Trends Pharmacol. Sci.</i> , May 1993, pp. 139-143, Vol. 14.	<input type="checkbox"/>
LAL	C52	WIRTH, URS et al; "Immediate-Early RNA 2.9 and Early RNA 2.6 of Bovine Herpesvirus 1 Are 3' Coterminal and Encode of Putative Zinc Finger Transactivator Protein"; <i>Journal of Virology</i> ; May 1992; pp. 2763-2772, Vol. 66, No. 5.	<input type="checkbox"/>
LAL	C53	ZAUG, ARTHUR et al., "Method for determining RNA 3' ends and application to human telomerase RNA", <i>Nucleic Acids Research</i> , 1996, pp. 532-533, Vol. 24, No. 3.	<input type="checkbox"/>

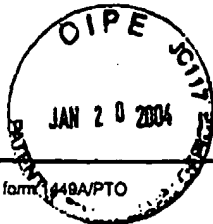
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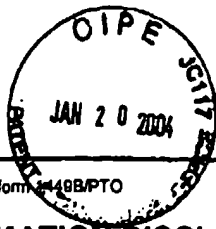
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CA	A1	US-6,440,735 B1	08-27-2002	Gaeta	
CA	A2	US-6,444,850 B1	09-03-2003	Cech et al.	
CA	A3	US-6,517,834 B1	02-11-2003	Weinrich et al.	
CA	A4	US-6,608,188 B1	08-19-2003	Tsuchiya et al.	
CA	A5	US-6,827,819 B2	09-30-2003	Cech et al.	
CA	A6	US 2002-0164786 A1	11-07-2002	Cech et al.	
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CA	A8	US 2003-0009019 A1	01-09-2003	Cech et al.	
CA	A9	US 2003-0032075 A1	02-13-2003	Cech et al.	
CA	A10	US 2003-0044953 A1	03-06-2003	Cech et al.	
CA	A11	US 2003-0059787 A1	03-27-2003	Cech et al.	
CA	A12	US 2003-0096344 A1	05-22-2003	Cech et al.	
CA	A13	U.S. Application No. 09/492,568		Cech et al.	
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Examiner Signature		Date Considered	7-22-04
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.





PTO/SB/08B (08-03)

<b>Substitute for form 448B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		<i>Application Number</i>	10/044,539
		<i>Filing Date</i>	January 11, 2002
		<i>First Named Inventor</i>	Cech, Thomas
		<i>Art Unit</i>	1646
		<i>Examiner Name</i>	not yet known
<i>Sheet</i> <b>2</b> <i>of</i> <b>2</b>		<i>Attorney Docket Number</i>	015389-002630US

<b>NON PATENT LITERATURE DOCUMENTS</b>			
<i>Examiner Initials *</i>	<i>Cite No. <sup>1</sup></i>	<i>Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.</i>	<i>T <sup>2</sup></i>
LXL	C1	ADAMS, MARK et al. "Initial Assessment of Human Gene Diversity and Expression Patterns Based Upon 83 Million Nucleotides of cDNA Sequence" <i>The Genome Directory: Supplement to Nature</i> 28 September 1995, 1995, pp. 3-174, Vol. 377, Issue 6547S.	
	C2		

<i>Examiner Signature</i>		<i>Date Considered</i>	7.22.04
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